

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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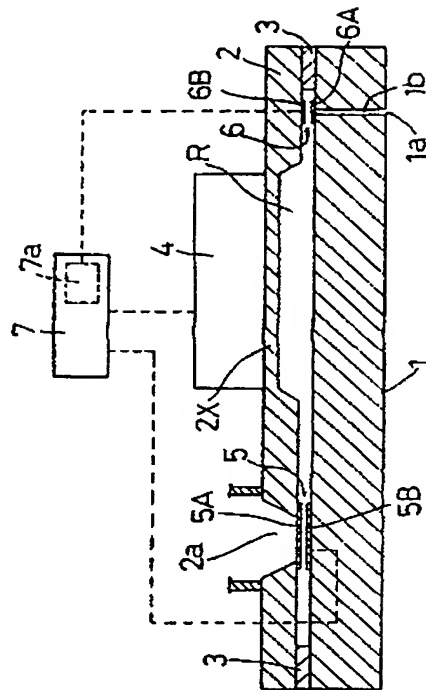
APPLICATION DATE : 10-12-88  
APPLICATION NUMBER : 63312744

APPLICANT : MINOLTA CAMERA CO LTD;

INVENTOR : GOMI YASUHIRO;

INT.CL. : B41J 2/175

TITLE : INK JET PRINTER



**ABSTRACT :** PURPOSE: To obtain an ink jet printer suitably capable of coping with both a reproduction with high resolving power and rich gradation and a multi-nozzle recoding by a method wherein valves for opening/closing paths are provided in the paths from a discharge drive means to discharge ports, and a valve control means for regulating the open degree of the valve on the basis of an image signal is mounted.

**CONSTITUTION:** When a recording is to be conducted by a recording head, firstly a control signal for applying a voltage is inputted to control electrodes 6B of respective discharge control valves 6 from a valve control part 7a of a controller 7 serving as a valve control means on the basis of an image signal among input signals, whereby required discharge control valves 6 are opened. Thereafter, an actuator 4 is driven with a control signal from the controller 7 based on the inputted signal to pressurize an ink contained in a pressure chamber R. In this manner, the pressurized ink reaches discharge ports 1a through one or more ink supply paths 1b with the open-state discharge control valves 6 to be discharged from the discharge ports 1a in a drip form. As a result, required recording dots for one line can be formed on recording paper at a time.

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